|    | Type | L #        | Hits        | Search Text   | DBs  | Time Stamp          |
|----|------|------------|-------------|---|--|---------------------|
| 1  | BRS  | L1         |             | interconnect\$4 or plug\$4 or<br>trench\$4 or damascene   |  | 2003/11/18<br>10:22 |
| 2  | BRS  | L2         | 216699<br>6 | tungsten or W or (tungsten<br>adj nitride) or "WN.sub.?"<br>or (tungsten adj silicon<br>adj nitride) or<br>"WSiN.sub.?" | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>13:48 |
| 13 | BRS  | L3         | 343303<br>3 | plat\$4 or electroplat\$4 or<br>ECD or (electro\$6 adj<br>copper adj deposit\$6)  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>10:25 |
| 4  | BRS  | L4         | 117594      | 1 and 2 and 3   | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>10:26 |
| 5  | BRS  | <b>L</b> 5 | 3751        | 1 same 2 same 3   | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>10:57 |

|    | Туре | L #        | Hits        | Search Text  | DBs  | Tim Stamp           |
|----|------|------------|-------------|--|--|---------------------|
| 6  | BRS  | L6         | 516239      | (2 not seed\$3) and 3  |  | 2003/11/18<br>10:29 |
| 7  | BRS  | <b>L</b> 7 | 3210        | (2 not seed\$3) and 5  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>10:29 |
| 8  | BRS  | L8         | 309366<br>8 | need or redundant or<br>eliminat\$4 or obviat\$4 or<br>superfuous\$4 or<br>unneccessary\$4 |  | 2003/11/18<br>10:35 |
| 9  | BRS  | L9         | 2040        | 7 and 8  |  | 2003/11/18<br>10:35 |
| 10 | BRS  | L10        | 271         | 9 and damascene  |  | 2003/11/18<br>10:36 |

|    | Туре | L # | Hits | Search Text                             | DBs  | Time Stamp          |
|----|------|-----|------|---|--|---------------------|
| 11 | BRS  | L11 | 385  | 1 near8 2 near8 3                       | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>10:58 |
| 12 | BRS  | L12 | 6065 | barrier near2 (layer or<br>film) with 2 | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>13:50 |
| 13 | BRS  | L13 | 1470 | 12 with 1                               | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>13:50 |
| 14 | BRS  | L14 | 59   | 13 with 3                               | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18          |

|   | Туре | L #        | Hits        | Search Text   | DBs  | Time Stamp          |
|---|------|------------|-------------|---|--|---------------------|
| 1 | BRS  | L1         | 122094      | interconnect\$4 or plug\$4 or<br>trench\$4 or damascene   |  | 2003/11/18<br>17:18 |
| 2 | BRS  | L2         | 216699      | tungsten or W or (tungsten<br>adj nitride) or "WN.sub.?"<br>or (tungsten adj silicon<br>adj nitride) or<br>"WSiN.sub.?" |  | 2003/11/18<br>17:18 |
| 3 | BRS  | L3         | 343303<br>3 | plat\$4 or electroplat\$4 or ECD or (electro\$6 adj copper adj deposit\$6)  | •  | 2003/11/18<br>17:18 |
| 4 | BRS  | m L4       | 117594      |   | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:18 |
| 5 | BRS  | <b>L</b> 5 | 3751        | or electroplat\$4 or ECD or (electro\$6 adj copper adj  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:18 |

|   | Туре | L #        | Hits   | Search Text   | DBs  | Time Stamp          |
|---|------|------------|--------|---|--|---------------------|
| 6 | BRS  | L6         | 516239 | ((tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") not seed\$3) and (plat\$4 or ECD or (electro\$6 adj copper adj deposit\$6))  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:18 |
| 7 | BRS  | <b>L</b> 7 | 3210   | ((tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") not seed\$3) and ((interconnect\$4 or plug\$4 or trench\$4 or damascene) same (tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") same (plat\$4 or electroplat\$4 or ECD or (electro\$6 adj copper adj deposit\$6))) | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:18 |
| 8 | BRS  | L8         | 8      | need or redundant or<br>eliminat\$4 or obviat\$4 or<br>superfuous\$4 or<br>unneccessary\$4  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:19 |

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|    | Тур | L # | Hits | Search Text   | DBs  | Tim Stamp           |
|----|-----|-----|------|---|--|---------------------|
| 9  | BRS | L9  | 2040 | (((tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") not seed\$3) and ((interconnect\$4 or plug\$4 or trench\$4 or damascene) same (tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") same (plat\$4 or electroplat\$4 or ECD or (electro\$6 adj copper adj deposit\$6)))) and (need or redundant or eliminat\$4 or obviat\$4 or superfuous\$4 or unneccessary\$4) | USPAT;<br>US-PG<br>PUB;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB | 2003/11/18<br>17:19 |
| 10 | BRS | L11 | 385  | (interconnect\$4 or plug\$4 or trench\$4 or damascene) near8 (tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?") near8 (plat\$4 or electroplat\$4 or ECD or (electro\$6 adj copper adj deposit\$6))   | JPO;   | 2003/11/18<br>17:19 |
| 11 | BRS | L12 | 6065 | barrier near2 (layer or film) with (tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?")  | JPO;   | 2003/11/18<br>17:19 |
| 12 | BRS | L13 | 1470 | (barrier near2 (layer or film) with (tungsten or W or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?")) with (interconnect\$4 or plug\$4 or trench\$4 or damascene)  | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB                         | 2003/11/18<br>17:19 |

|    | Туре | L # | Hits | Search Text  | DBs  | Time Stamp          |
|----|------|-----|------|--|--|---------------------|
| 13 | BRS  | L10 | 271  | or W or (tungsten adj<br>nitride) or "WN.sub.?" or<br>(tungsten adj silicon adj<br>nitride) or "WSiN.sub.?")   | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:19 |
| 14 | BRS  | L14 | 59   | or (tungsten adj nitride) or "WN.sub.?" or (tungsten adj silicon adj nitride) or "WSiN.sub.?")) with (interconnect\$4 or plug\$4 or trench\$4 or damascene)) | USPAT; US-PG PUB; EPO; JPO; DERWE NT; IBM_T DB | 2003/11/18<br>17:19 |

|   | Type | L # | Hits   | Search Text    | DBs  | Time Stamp          |
|---|------|-----|--------|----------------|--|---------------------|
| 1 | BRS  | L1  | 206390 | electrolyte\$3 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:42 |
| 2 | BRS  | L2  | 105947 | electrochem\$6 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |
| 3 | BRS  | L3  | 29566  | 1 same 2       | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |
| 4 | BRS  | L4  | 8647   | damascene\$3   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |                     |
| 5 | BRS  | L5  | 217061 | :              | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |

|    | Type | L #        | Hits  | Search Text                                    | DBs  | Tim Stamp           |
|----|------|------------|-------|--|--|---------------------|
| 6  | BRS  | L6         | 821   | 3  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |
| 7  | BRS  | <b>L</b> 7 | 16    | 6 and 4  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |
| 8  | BRS  | L8         | 16489 | 1 near8 2                                      | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:44 |
| 9  | BRS  | L9         | 2687  | electrochem\$6 near4 reduc\$6<br>near4 oxid\$8 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:46 |
| 10 | BRS  | L10        | 889   | 1 same 9                                       | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:45 |

|    | Type | L # | Hits | Search Text                                    | DBs  | Time Stamp          |
|----|------|-----|------|--|--|---------------------|
| 11 | BRS  | L11 | 20   | 10 same 5                                      | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:46 |
| 12 | BRS  | Ь12 | 3929 | electrochem\$6 near8 reduc\$6<br>near8 oxid\$8 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:46 |
| 13 | BRS  | L13 | 114  | 12 same 5                                      | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>11:47 |

|   | Type | L # | Hits        | Search Text   | DBs  | Time Stamp          |
|---|------|-----|-------------|---|--|---------------------|
| 1 | BRS  | L11 | 206390      | electrolyte\$3  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:49 |
| 2 | BRS  | L12 | 105947      | electrochem\$6  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:56 |
| 3 | BRS  | L13 | 29566       | electrolyte\$3 same<br>electrochem\$6                           | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:34 |
| 4 | BRS  | L14 | 8647        | damascene\$3  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:31 |
| 5 | BRS  | L15 | 217061<br>3 | W or tungsten or WN or WsiN<br>or "WN.sub.?" or<br>"WSiN.sub.?" | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:32 |

|    | Туре | L # | Hits  | Search Text  | DBs  | Time Stamp          |
|----|------|-----|-------|--|--|---------------------|
| 6  | BRS  | L16 | 821   | (electrolyte\$3 same electrochem\$6) same (W or tungsten or WN or WsiN or "WN.sub.?")                                    | 020,   | 2003/11/20<br>13:31 |
| 7  | BRS  | L17 | 16    | ((electrolyte\$3 same electrochem\$6) same (W or tungsten or WN or WsiN or "WN.sub.?" or "WSiN.sub.?")) and damascene\$3 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:31 |
| 8  | BRS  | L18 | 16489 | electrolyte\$3 near8<br>electrochem\$6   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:31 |
| 9  | BRS  | L19 | 2687  | electrochem\$6 near4 reduc\$6<br>near4 oxid\$8   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20          |
| 10 | BRS  | L20 | 889   | electrolyte\$3 same<br>(electrochem\$6 near4<br>reduc\$6 near4 oxid\$8)  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:31 |

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|    | Туре | L # | Hits        | Search Text   | DBs  | Time Stamp          |
|----|------|-----|-------------|---|--|---------------------|
| 11 | BRS  | L21 | 20          | <pre>(electrolyte\$3 same   (electrochem\$6 near4   reduc\$6 near4 oxid\$8)) same   (W or tungsten or WN or   WsiN or "WN.sub.?" or   "WSiN.sub.?")</pre> | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:31 |
| 12 | BRS  | L22 | 3929        | electrochem\$6 near8 reduc\$6   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:51 |
| 13 | BRS  | L23 | 114         | (electrochem\$6 near8 reduc\$6 near8 oxid\$8) same (W or tungsten or WN or WsiN or "WN.sub.?" or "WSiN.sub.?")  | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B                         | 2003/11/20<br>13:32 |
| 14 | BRS  | L24 | 217061<br>3 | W or tungsten or WN or WsiN<br>or "WN.sub.?" or<br>"WSiN.sub.?" or (tungsten<br>adj nitride) or (tungsten<br>adj silicon adj nitride)                     | FDA.   | 2003/11/20<br>13:33 |
| 15 | BRS  | L25 | 84          | 19 same 24  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:34 |

|    | Type | L # | Hits  | Search Text | DBs  | Time Stamp          |
|----|------|-----|-------|-------------|--|---------------------|
| 16 | BRS  | L26 | 114   | 22 same 24  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:34 |
| 17 | BRS  | L28 | 25    | 26 same 11  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:38 |
| 18 | BRS  | L29 | 89    | 26 not 28   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:38 |
| 19 | BRS  | L30 | 0     | 29 and 14   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B |                     |
| 20 | BRS  | L31 | 22707 | 11 with 12  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20          |

|    | Type | L # | Hits        | Search Text  | DBs  | Time Stamp          |
|----|------|-----|-------------|--|--|---------------------|
| 21 | BRS  | L32 | 217         | 31 with 24   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:39 |
| 22 | BRS  | L33 | 122198<br>7 | interconnect\$4 or plug\$4 or<br>trench\$4 or damascene\$3 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:40 |
| 23 | BRS  | L34 | 35          | 32 and 33  | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:40 |
| 24 | BRS  | L35 | 2           | 19 with 11 with 33   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:46 |
| 25 | BRS  | L36 | 5           | 19 with 11 with 24   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:48 |

|    | Тур | L #  | Hits | Search Text                                  | DBs  | Time Stamp          |
|----|-----|------|------|--|--|---------------------|
| 26 | BRS | L37  | 1202 | 11 same 22                                   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:49 |
| 27 | BRS | L38  | 25   | 37 same 24                                   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:50 |
| 28 | BRS | L39  | 3    | 38 and 33                                    | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:50 |
| 29 | BRS | L4 0 | 9700 | electrochem\$6 same reduc\$6<br>same oxid\$8 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:51 |
| 30 | BRS | L41  | 3370 | 11 same 40                                   | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20          |

|    | Type | L # | Hits | Search Text                | DBs  | Time Stamp          |
|----|------|-----|------|----------------------------|--|---------------------|
| 31 | BRS  | L42 | 72   | 41 same 33                 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:52 |
| 32 | BRS  | L43 | 113  | 41 same 24                 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:52 |
| 33 | BRS  | L44 | 34   | 43 and 33                  | USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B                         | 2003/11/20<br>13:55 |
| 34 | BRS  | L45 | 31   | 12 near8 33 near8 11 near8 | USPAT;<br>US-PGP<br>UB;<br>EPO;<br>JPO;<br>DERWEN<br>T;<br>IBM_TD<br>B | 2003/11/20<br>13:56 |

chemical-interdiffusion; conformal-coatings; copper; current-density; diffusion-barriers; electric-resistance; electroplating; integrated-circuit-interconnections; integrated-circuit-metallisation.

## Keyw rds

sheet resistance effects; **electroplating**; copper; **seedless** barrier films; metal resistance controlled plating current distribution; circular wafers; uniform metal film electro deposition; resistive film; copper plating solutions; uniform film deposition; Ta barrier layers; resistive metal barrier layers; plating current density; uniformity characterization; dimensionless polarization parameter; current density; chemical properties; physical properties; Cu plating; plating exchange current density; copper concentration; plating bath; uniform conformal conduction layer; electro deposition; bulk copper film plating rate; 500 angstrom; 200 mm; Cu Ta; Cu.

### **Classification codes**

| B2550F | (Metallisation and interconnection technology). |
|--------|---|
| B0520J | (Deposition from liquid phases).                |
| B2570  | (Semiconductor integrated circuits).            |
| B2530D | (Semiconductor-metal interfaces).               |

# **Chemical indexing**

Cu-Ta int, Cu int, Ta int, Cu el, Ta el; Cu int, Cu el.

# Numerical indexing

size: 5.0E-08 m, 2.0E-01 m.

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